1	WHA	T IS CLAIMED:			
2					
3	1.	A me	A method for retaining a treatment chemical in a subterranean		
4		forma	nation containing hydrocarbons, the method comprising:		
5					
6		(a)	prep	aring an emulsion including:	
7					
8			(i)	an oil continuous phase;	
9					
10			(ii)	a first aqueous phase including a first treatment chemical	
11				which is to be retained in a subterranean formation; and	
12					
13			(iii)	a second aqueous phase including a second chemical	
14				which is to be reacted with the first treatment chemical in	
15				the subterranean formation to enhance retention of the	
16				treatment chemical in the subterranean formation;	
17					
18			wher	rein the first and second aqueous phases remain generally	
19			sepa	rately dispersed and stable within the oil continuous phase;	
20					
21		(b)	placi	ng the emulsion down a well bore and into the subterranean	
22			form	ation; and	
23					
24		(c)	allow	ving the first and second aqueous phases to interact with	
25			one a	another in the subterranean formation such that the first	
26			treat	ment chemical and the second chemical react with one	
27			anoti	her resulting in the first treatment chemical securing to the	
28			subte	erranean formation.	
29					
30	2.	The	method	d of claim 1 wherein:	
31					
32		the oil continuous phase includes at least one surfactant which aids in			
33		the formation of the oil continuous emulsion.			

1	3.	The method of claim 2 wherein.
2		
3		the surfactant includes one of an anionic surfactant and a non-ionic
4		surfactant.
5		
6	4.	The method of claim 1 wherein:
7		
8		the oil continuous phase and the first and second aqueous phases
9		separate or invert within the subterranean formation to enhance the
10		rate of reaction between the first and second aqueous phases.
11		
12	5.	The method of claim 4 wherein:
13		
14		the subterranean formation contains fluids including hydrocarbons and
15		water and the water in the subterranean formation assists in the
16		inversion of the emulsion from an oil continuous phase to a water
17		continuous phase.
18		
19	6.	The method of claim 4 wherein:
20		
21		the emulsion receives heat from the subterranean formation which
22		enhances the inversion of the emulsion from an oil continuous phase to
23		a water continuous phase.
24		
25	7.	The method of claim 4 wherein:
26		
27		the inversion of the emulsion from an oil continuous phase to a water
28		continuous phase is enhanced by the presence of salt in the
29		subterraneous formation which increases the salinity or ionic strength
30		of the aqueous phase

1	8.	The method of claim 4 wherein:
2		
3		the step of inverting the oil continuous phase and the first and second
4		aqueous phases is enhanced by an inclusion of a delayed release
5		agent in the emulsion which will alter the pH of the emulsion as the
6		emulsion warms.
7		
8	9.	The method of claim 8 wherein:
9		·
10		the delayed release agent is sulfamic acid.
11		·
12	10.	The method of claim 1 wherein:
13		
14		the first aqueous phase and the second aqueous phase are prepared
15		as separate oil continuous emulsions prior to their being mixed
16		together to form the oil continuous emulsion which is placed down the
17		well bore and into the subterranean formation.
18		
19	11.	The method of claim 1 wherein:
20		
21		the first treatment chemical includes at least one of a scale inhibitor, a
22		proppant, a polymer and a conformance controller.
23		•
24	12.	The method of claim 1 wherein:
25		
26		the first treatment chemical includes a scale inhibitor and the amount of
27		active scale inhibitor is in the range of 0.5-35 % wt./vol. of the first
28		aqueous phase.
29		
30	13.	The method of claim 12 wherein:
31		
32		the amount of active scale inhibitor is in the range of 5-15% wt./vol. of
33		the first aqueous phase.

1	14.	The method of claim 13 wherein:
2		
3		the amount of active scale inhibitor is in the range of 5-10% wt./vol. of
4		the first aqueous phase.
5		
6	15.	The method of claim 1 wherein:
7		
8		the first treatment chemical comprises a scale inhibitor which includes
9		at least one of Nitrilo tri(methylene phosphonic) acid
10		Bis-hexamethylene triamine-penta(methylene phosphonic) acid,
11		Poly(acrylic) acid, Diethylene triamine-penta(methylene phosphonic)
12		acid, Phosphinopolycarboxylic acid, Sulfonated polyacrylic acid,
13		1-Hydroxyethylidene-1,1-diphosphonic acid, and Hexamethylene
14		diamine-tetra(methylene phosphonic) acid.
15		
16	16.	The method of claim 1 wherein:
17	1	
18		the first treatment chemical comprises a scale inhibitor including a
19		combination of at least two of Nitrilo tri(methylene phosphonic) acid,
20		Bis-hexamethylene triamine-penta(methylene phonshonic) acid,
21		Poly(acrylic) acid, Diethylene triamine-penta(methylene phosphonic)
22		acid, Phosphinopolycarboxylic acid, Sulfonated polyacrylic acid,
23		1-Hydroxyethylidene-1,1-diphosphonic acid, and Hexamethylene
24		diamine-tetra(methylene phosphonic) acid.
25		
26	17.	The method of claim 1 wherein:
27		
28		the first aqueous phase includes a solvent.
29		
30	18.	The method of claim 1 wherein:
31		
32		the second aqueous phase includes a solvent.
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1	19.	The method of claim 1 wherein:
2		
3		the retention enhancing agent includes at least one ion of Group II
4		metals, Group III metals, and transition elements in an amount
5		sufficient to react with the first treatment chemical.
6	00	The constituted of classes A or beautic
7	20.	The method of claim 1 wherein:
8		
9		the retention enhancing agent comprises one of metal hydroxide, metal
10		oxide, metal alkoxide and mixtures thereof, and wherein the metal is
11		selected from the group comprising lithium, sodium, potassium,
12		magnesium, calcium, strontium, barium, boron or mixtures thereof.
13		
14	21.	The method of claim 1 wherein:
15		
16		the molar ratio of the retention enhancing agent to the first treatment
17		chemical is in the range of 0.5-20:1.
18		
19	22	The method of claim 21 wherein:
20		
21		the molar ratio of the retention enhancing agent to the first treatment
22		chemical is in the range of 0.5-10:1.
23		
24	23.	The method of claim 22 wherein:
25		·
26		the molar ratio of the retention enhancing agent to the first treatment
27		chemical is in the range of 0.5-5:1.
28		
29	24.	A method for retaining a treatment chemical in a subterranean
30		formation, the method comprising:
31		
32		(a) preparing an emulsion including:

1		(i)	an oil continuous phase including includes at least one
2			surfactant, capable of forming an oil continuous phase
3			emulsion;
4			
5		(ii)	a first aqueous phase including a first treatment chemical
6			which is to be retained in a subterranean formation; and
7			
8		(iii)	a second aqueous phase including a second chemical
9			which is to be reacted with the first chemical in the
10			subterranean formation to enhance the retention of the
11			first treatment chemical to the subterranean formation;
12			
13	(b)	placi	ng the emulsion down a well bore and into the subterranean
14			formation; and
15			
16	(c)	perm	itting the first and second chemicals in the aqueous phases
17		to rea	act for a sufficient period of time causing the first treatment
18		chem	gical to be retained in the subterranean formation